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TERADA TAKAAKI(54) THREE-LEVEL NEUTRAL POINT CLAMP-TYPE
INVERTER CIRCUIT

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a snubber function with less number of part items since providing an individual snubber circuit for each switching element is expensive and not economical.

SOLUTION: A three-level neutral point clamp-type inverter circuit, where a positive bus 4, a negative bus 5, and a neutral line 6 are provided, and first and second IGBTs 11 and 12 and/or third and fourth IGBTs 13 and 14 are connected in series between the positive bus 4 and a phase voltage output terminal 10 and/or the negative bus 5 and the phase voltage output terminal 10, respectively, first and second snubber capacitors 21 and 22 are provided between the positive bus 4 and the neutral line 6 and between the negative bus 5 and the neutral line 6, respectively, and first and second snubber diodes 23 and 24 are provided, where a cathode is connected to the positive bus 4 and an anode is connected to the phase voltage output terminal 10 in the first snubber diode 23, and the anode is connected to the negative bus 5 and the cathode is connected to the phase voltage output terminal 10 in the second snubber diode 24.

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